1401 Village Blid, aptil913 West Palm Beach, Ff 33409 Mary 5, 2005

Mo. Coynthia Oshita Office of Environmental Health Hazard Assessment Proposition 65 Implementation Peogram P.O. Box 4010 Socramento, Ca 95812-4010

Dear Mo. Oshita,

Please accept the following statement for use with the meeting of Many 9, 2005. for discussion of danger of acrylamide.

Sincouly Richard Segal

OFFICE OF ENVIRONMENTAL HEALTH HAZARD ASSESSMENT

MAY 1 0 2005

SACRAMENTO

nutations found from glycidamide exposure appear to suggest that caucinogenesis occurs unde this condition. The genes in question include the HPRI gene which seen to fo sets of desminotion but glyadamid causes There is a nouse mutation at the la gone which correlates to ethylene sxede coconogeneses and the kind in use is from acrylande study of 1986 B6C3F I apc mutation occurs it is found with colon concer and is related to diet The P53 give is nutated and this can course rumerous coranogenesis phenomena based on facture of tumor suppression Theo would seem to be a repair failure of the polymeroses use given the presence of mutations hereby cytistine is likely be poorly repaired part of deamenation ON 4 to windere

Some nutation leads 3 to timos growth of prevention are directed to glutathione. The glutathion useful for prevention of adductes is not found as such with glyadamide exposure possibly its control gene is mutated by glycidamide The question of the kinds of adducts in question begon with carbonyethyl, in voteo, from acceptance, followed with 2-corbamogl-2 hydroxyethyl from conversion to glycidomide in vivo and has led to glyerdomedo caused wadene adducts in votes Thus the to existen of adducts of donger are known, and it would appear likely that on adduct of cytosine deamented to winden well neutate a human gene carcinogheus The repair failures noted of glysidamide cause may turn out to be as well-understood as those from beny pyrene, given work on rucleotide exasion upon and base exasions repair, repair units of polymeroses and glycosylases. Certainly with some of the

same genes mutated, similar repair failures be found. The cyclic adduct, postulated as part of the deamenation in question, has repair deficiencies, be addition, its formation at cytidene is of scientific inquiry, given acrolein results It is interesting that mutations of the drosophila and wracil, shown from exposure to ethylene oxide and propylone oxide, the latter of which is known to deamenate in vivo, cannot be orded out as the cause of nucleotide excession repor fault, when in compousor to guarant adducts

Under glycol part of mutation in vivo with wroul glycol found to be un-repaired at a low done in the study of glycidamid, its low-dose high-exposure caranogenic factor may be partially explained. It is for these reasons that I agree that warning, such as the one devised which begins Baking, coasting, fuying," should be provided to should be offered for acrylamide products. The onset- of conver rate is one-in-three and is approaching one - in - two. Concer from smoking declined while cancer from diet increased derylamide likely leads in carcinogenesis causes among food products. Since the same Swedish researchers have contributed to their epidemiology with mutation studies which have found agreement and advoced mulational study from other scientists their definition of usk from acrylamide continues to be important that so merograms of verylamide per day can lead to in a concer onset usk

The nortiguefuent book Level using this rate should Lose and high danger, attention should be directed to at usk sopulations due to genetics Swen that the USEP.a was to be consulted cather than action taken as a result of the October 2003 Carunogenic Identification Committee meeting it should be noted that leading acylamede veripoint at V Pa includes criticism of the 2004 National Forwology Riogram advisory as being too week regarding developmental effects (Desifield) This view is in agreement with swedish viewpoint (abrahamsson Jetterberg) which extends the risk to in 100 for 130 necrograms of anylamed per day